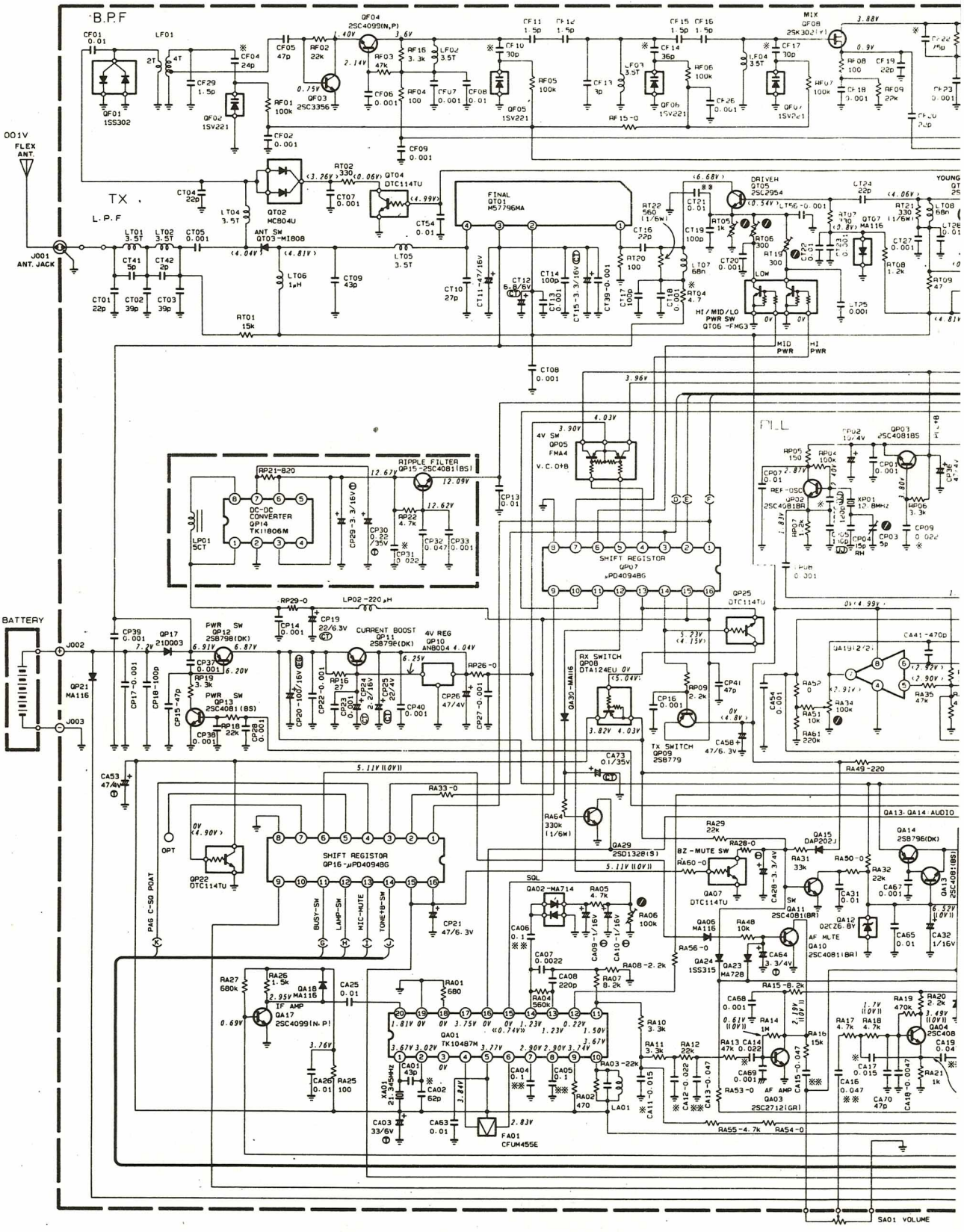
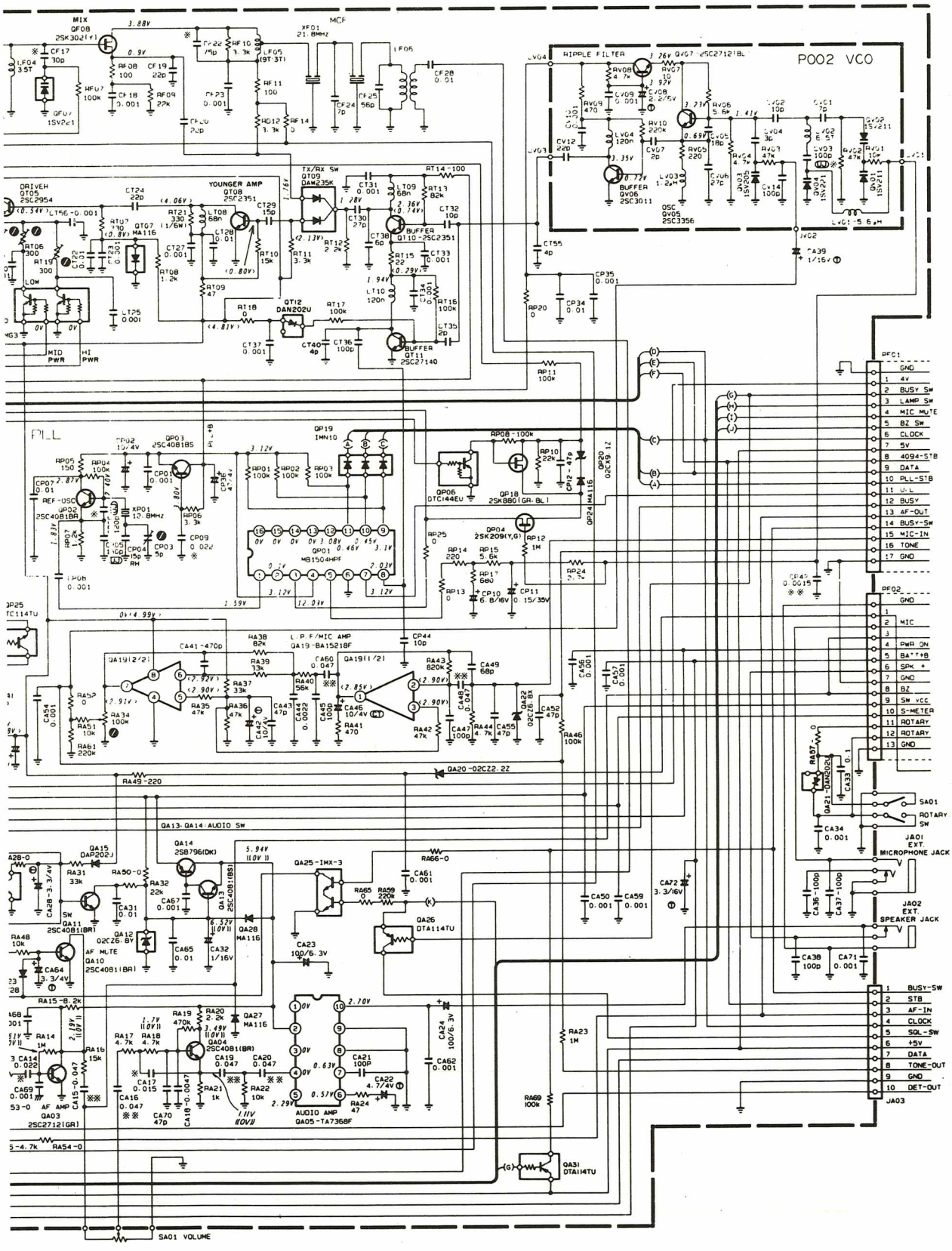
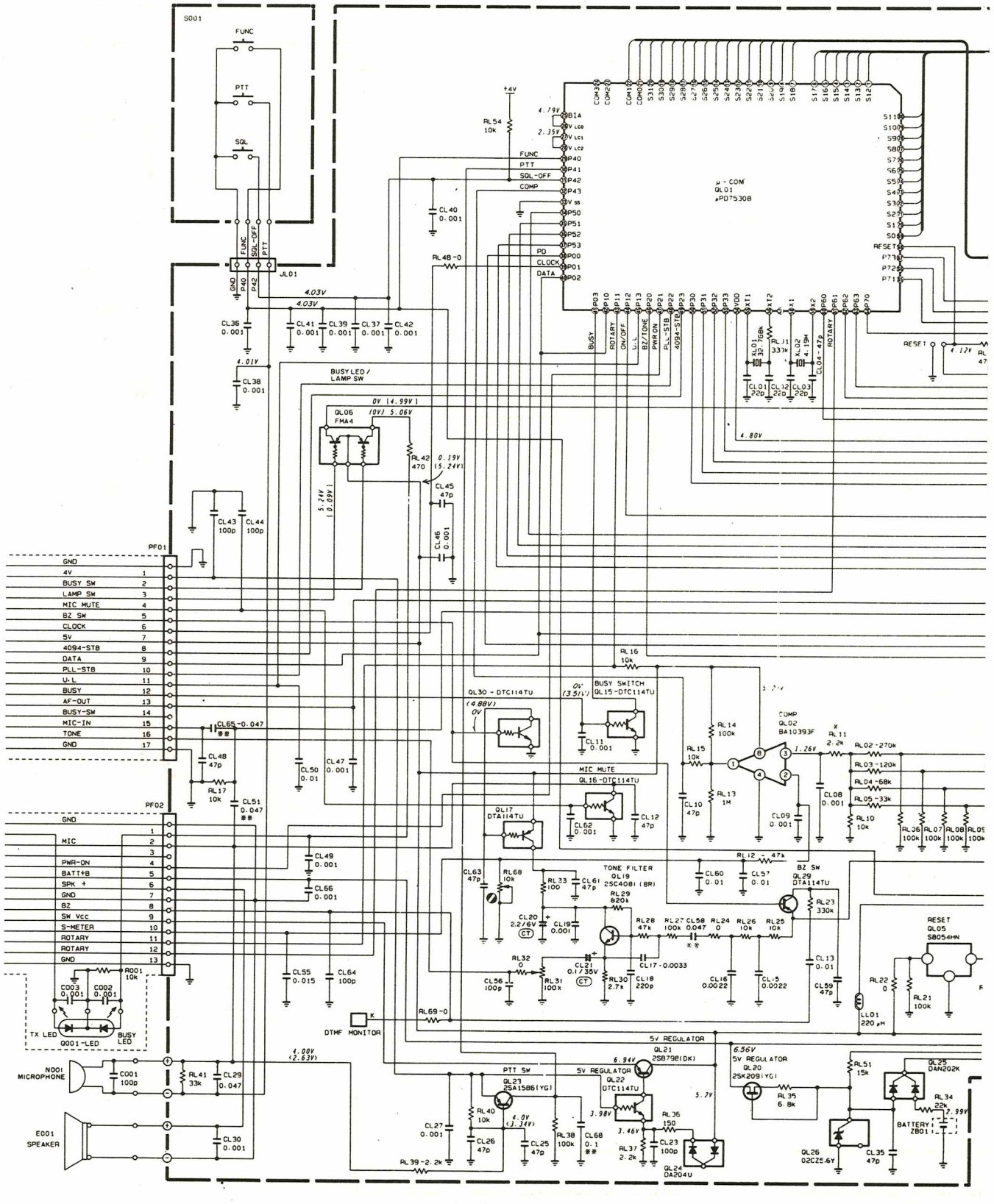
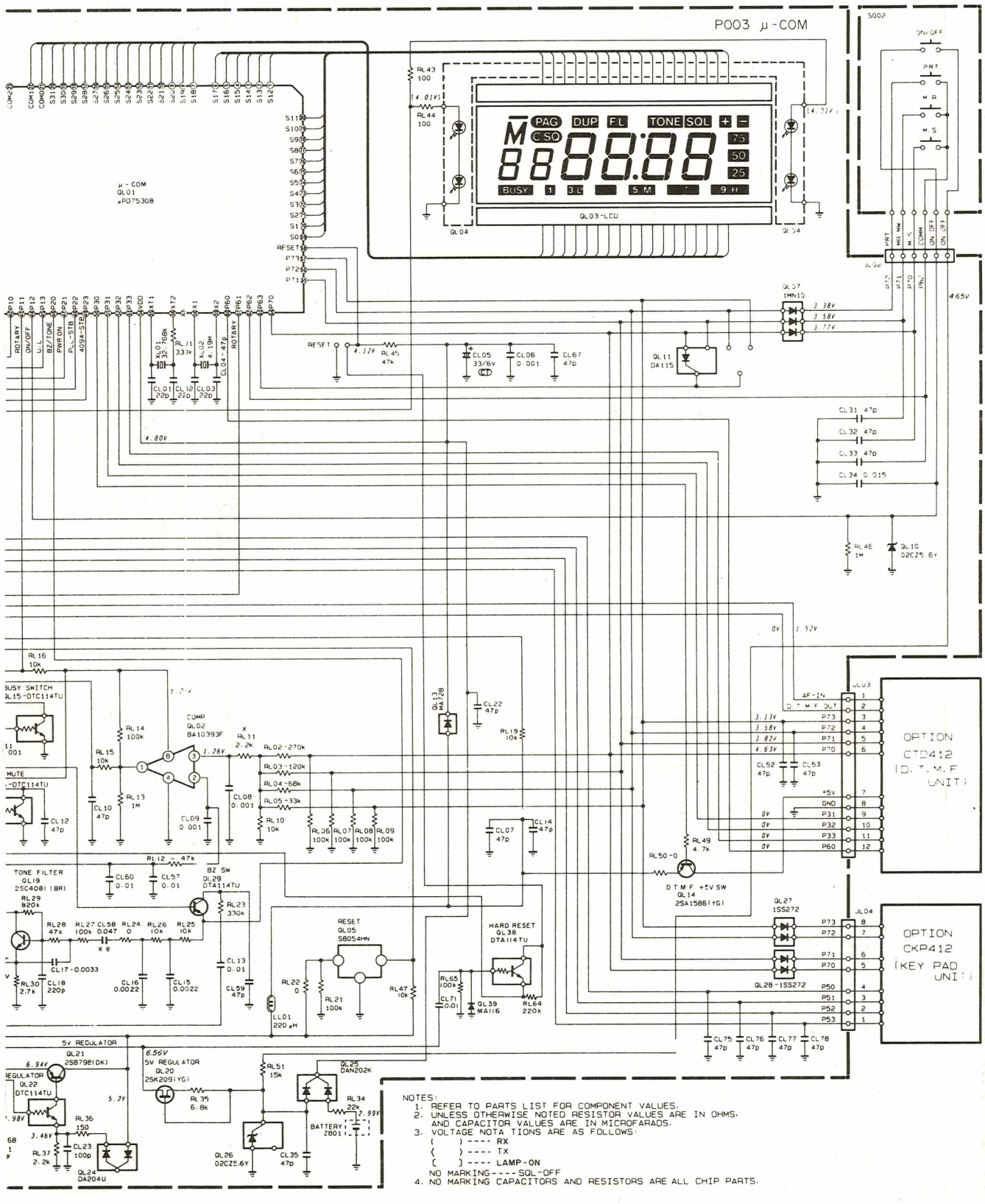
SCHEMATIC DIAGRAM



MODEL C112E


MIX
MCF
RIPPLE FILTER
P002 VCO
DRIVER
YOUNGER AMP
TX/RX SW
BUFFER
OSC
PLL
REF-OSC
L.P.F/MIC AMP
AUDIO SW
AF MUTE
AF AMP
AUDIO AMP
VOLUME
PFC1
PFC2
JA01 EXT. MICROPHONE JACK
JA02 EXT. SPEAKER JACK
JA03
SA01 ROTARY SW
GND
4V
BUSY SW
LAMP SW
MIC MUTE
BZ SW
CLOCK
5V
4094-STB
DATA
PLL-STB
U-L
BUSY
AF-OUT
BUSY-SW
MIC-IN
TONE
MIC
PWR ON
BATT+B
SPK +
BZ
SW VCC
S-METER
ROTARY
STB
AF-IN
SQL-SW
TONE-OUT
DET-OUT


S001
FUNC
PTT
SQL
JL01
SQL-OFF
GND
P40
P42
4.03V
CL36 0.001
CL41 0.001
CL39 0.001
CL37 0.001
CL42 0.001
4.01V
CL38 0.001
BUSY LED / LAMP SW
QL06 FMA4
(0V) 5.06V
0V (4.99V)
RL42 470
0.19V (5.24V)
5.24V (0.09V)
CL45 47p
CL46 0.001
CL43 100p
CL44 100p
PF01
GND
4V
BUSY SW
LAMP SW
MIC MUTE
BZ SW
CLOCK
5V
4094-STB
DATA
PLL-STB
U-L
BUSY
AF-OUT
BUSY-SW
MIC-IN
TONE
CL65 0.047
CL48 47p
RL17 10k
CL51 0.047
CL50 0.01
CL47 0.001
PF02
MIC
PWR-ON
BATT+B
SPK +
BZ
SW Vcc
S-METER
ROTARY
RA01 10k
CA03 0.001
CA02 0.001
TX LED
BUSY LED
QA01-LED
CL49 0.001
CL66 0.001
CL55 0.015
CL64 100p
RL69-0
DTMF MONITOR
NA01 MICROPHONE
CA01 100p
RL41 33k
CL29 0.047
EA01 SPEAKER
CL30 0.001
4.00V (2.63V)
+4V
RL54 10k
4.79V
2.35V
FUNC
PTT
SQL-OFF
COMP
CL40 0.001
RL48-0
PD
CLOCK
DATA
μ-COM QL01 μPD75308
COM3
COM2
COM1
COM0
S31
S30
S29
S28
S27
S26
S25
S24
S23
S22
S21
S20
S19
S18
S17
S16
S15
S14
S13
S12
S11
S10
S9
S8
S7
S6
S5
S4
S3
S2
S1
S0
RESET
P73
P72
P71
P03
P10
P11
P12
P13
P20
P21
P22
P23
P30
P31
P32
P33
VDD
XT1
XT2
X1
X2
P60
P61
P62
P63
P70
BUSY
ROTARY
ON/OFF
U-L
BZ/TONE
PWR ON
PLL-STB
4094-STB
XL01 32.768k
RL01 33M
XL02 4.19M
CL04 47p
ROTARY
CL01 22p
CL02 22p
CL03 22p
4.12V
4.80V
RL16 10k
QL30 - DTC114TU
(4.88V)
0V
BUSY SWITCH QL15-DTC114TU
0V (3.51V)
CL11 0.001
MIC MUTE
QL16-DTC114TU
CL62 0.001
CL12 47p
QL17 DTA114TU
RL15 10k
RL14 100k
RL13 1M
CL10 47p
COMP QL02 BA10393F
RL11 2.2k
1.26V
RL02 270k
RL03 120k
RL04 68k
RL05 33k
RL10 10k
CL08 0.001
CL09 0.001
RL06 100k
RL07 100k
RL08 100k
RL09 100k
RL12 47k
CL60 0.01
CL57 0.01
BZ SW QL29 DTA114TU
RL23 330k
CL13 0.01
CL59 47p
TONE FILTER QL19 2SC4081 (BR)
CL63 47p
RL68 10k
RL33 100
CL61 47p
RL29 820k
CL20 2.2/6V
CT
CL19 0.001
RL28 47k
RL27 100k
CL58 0.047
RL24 0
RL26 10k
RL25 10k
RL32 0
CL21 0.1/35V
CT
RL31 100k
RL30 2.7k
CL18 220p
CL17-0.0033
CL56 100p
CL16 0.0022
CL15 0.0022
RESET QL05 S8054HN
RL22 0
RL21 100k
LL01 220μH
5V REGULATOR QL21 2SB798(DK)
6.94V
5V REGULATOR QL22 DTC114TU
3.98V
3.46V
RL36 150
CL23 100p
RL37 2.2k
QL24 DA204U
5.2V
6.56V
5V REGULATOR QL20 2SK209(YG)
RL35 6.8k
QL25 DAN202K
RL51 15k
RL34 22k
2.99V
BATTERY ZB01
QL26 02CZ5.6Y
CL35 47p
PTT SW
QL23 2SA1586(YG)
RL40 10k
4.0V (3.34V)
CL27 0.001
CL26 47p
CL25 47p
RL38 100k
CL68 0.1
RL39-2.2k


P003 μ-COM
μ-COM
QL01
μPD75308
QL03-LCD
PAG
DUP
FL
TONE
SQL
BUSY
RESET
OPTION
CTD412
(D.T.M.F
UNIT)
OPTION
CKP412
(KEY PAD
UNIT)
NOTES:
1. REFER TO PARTS LIST FOR COMPONENT VALUES.
2. UNLESS OTHERWISE NOTED RESISTOR VALUES ARE IN OHMS.
AND CAPACITOR VALUES ARE IN MICROFARADS.
3. VOLTAGE NOTA TIONS ARE AS FOLLOWS:
( ) ---- RX
( ) ---- TX
[ ] ---- LAMP-ON
NO MARKING---- SQL-OFF
4. NO MARKING CAPACITORS AND RESISTORS ARE ALL CHIP PARTS.